

Docket No.: 1614.1386

Serial No. 10/781,797

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 4-6 and AMEND claim 8 in accordance with the following:

1. (ORIGINAL) A communication device comprising:
a transmitter for transmitting an ultra wide band wireless wave pulse;
a plurality of receivers which are disposed equidistant from the transmitter and receive the ultra wide band wireless wave pulse; and
distance-measuring equipment which detects a distance or a direction to an object based on reception times when each of the receivers receives the ultra wide band wireless wave pulse directly from the transmitter and an object-reflected wave thereof.

2. (ORIGINAL) The communication device as claimed in claim 1, wherein communication is performed by the transmitter and the receivers using the ultra wide band wireless wave pulse.

3. (CANCELLED)

4. (CANCELLED)

5. (CANCELLED)

6. (CANCELLED)

7. (CANCELLED)

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8. (CURRENTLY AMENDED) A communication system comprising:

a detector including a transmitter which transmits a response request using an ultra wide band wireless wave pulse; a plurality of receivers which are disposed equidistant from the transmitter and receive the ultra wide band wireless wave pulse; and distance-measuring equipment which detects a distance or a direction to an object based on reception times when each of the receivers receives the ultra wide band wireless wave pulse directly from the transmitter and an object-reflected wave thereof; and

a response device including a receiver which is installed on the object and receives the ultra wide band wireless wave pulse transmitted from the transmitter of the detector; and a transmitter which transmits a response request using another ultra wide band wireless wave pulse in response to the reception of the ultra wide band wireless wave pulse from the detector by the receiver of the response device.